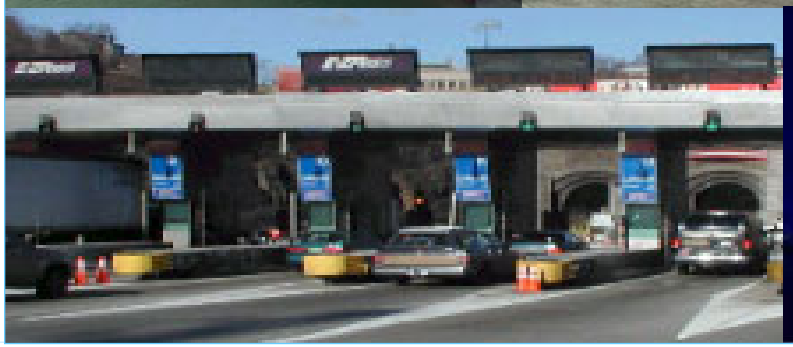
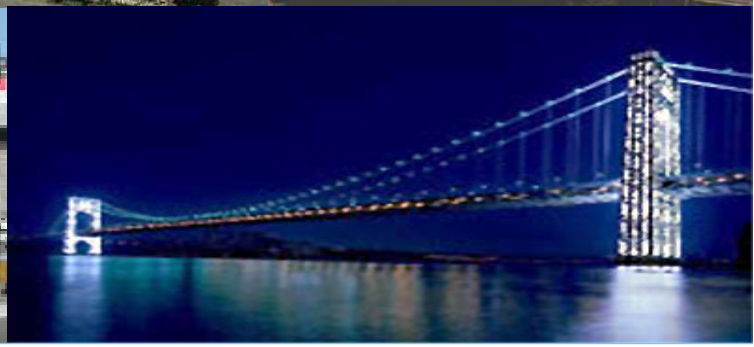
Port Authority New York/New Jersey Radiation Detection Equipment Field Trial

The goal of the field trial is to clarify the role of radiation detection technology in monitoring critical elements of an intermodal transportation system, thus enabling the path forward for 100% inspection without impeding commerce. EML leads the project implementation as the point-of-contact with the PANYNJ and federal participants. The EML-based PANYNJ New York Project Office coordinates the field work and manages the project information and data.





Objectives

Multi-agency radiation detection equipment test bed at the PANYNJ will:

- Benchmark and operationally test and evaluate commercially-available and state-of-the-art rad/nuc detection technologies
- Assess efficacy and viability of using radiation detection technologies to detect illicit traffic of rad/nuc materials
- Assess commercial impact of full-scale deployment of rad/nuc detection technologies
- Provide operational feedback to R&D community to identify needs for next-generation systems
- Provide feedback to operations on efficacy of standard operating procedures and response protocols
- Provide input to the planning and implementation of nuclear interdiction operations across the US
- Facilitate future decisions on regional and national deployment strategies

Implementation Strategy:

- Procurement of commercial systems
- Pre-deployment testing of all systems at BNL
- Development of Concept of Operations and Response Protocols
- Training for PAPD and CBP inspectors
- Phased installation/operation at PANYNJ:
- Development of integrated ConOps for PANYNJ
- Systems analysis and assessment

Collaborators

- Port Authority of New York and New Jersey
- DHS/Science and Technology Directorate
- NNSA/Office of Nonproliferation Research and Engineering (NA-22)
- DHS/BTS/Customs and Border Protection
- DHS/Environmental Measurements Laboratory
- Los Alamos National Laboratory
- Sandia National Laboratories
- Lawrence Livermore National Laboratory
- Savannah River Technology Center
- Brookhaven National Laboratory
- Pacific Northwest National Laboratory
- Oak Ridge National Laboratory